

SAFETY DATA SHEET



according to EC Directive 2001/58/EC

Date of issue: 16-11-1999

revised on: 03-08-2005

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Trade name: WUXAL® Amino

Product-No.: 92697

1 Company

Manufacturer/Supplier: AGLUKON Spezialdünger GmbH & Co. KG Telephone: +49 (0)211 5064-0
Address: Heerdtter Landstraße 199 Telefax: +49 (0)211 5064-247
40549 Düsseldorf, Germany
Informing department: Development Special Fertilisers Telephone: +49 (0)211 5064-250

Emergency telephone (D/Berlin): Telephone No.: +49(0)30 19240 (Day and Night)

2 Composition/Information on Ingredients

Preparation: Liquid hydrolysate of amino acid
Description: Aqueous solution of amino acid hydrolysate.
Amino acids and peptides obtained by enzymatic hydrolysis.
Use: Fertiliser, preparation for plant nutrition, plant strengthener

Harmful components:

<u>Marking</u>	<u>CAS-No.</u>	<u>Content (%)</u>	<u>Danger symbol</u>	<u>R-phrases</u>
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Additional information: The fertiliser composition is no hazardous preparation.

3 Hazards Identification

Hazards designation: None.
Not classified as a dangerous material according to Directive 67/548/EEC and Directive 88/379/CEE.
Particular hazards (R-phrases): None
Harmful effects/symptoms: No information available.

4 First-Aid Measures

General hints: Remove soiled clothes.
after inhalation: Take out to the fresh air, rest quiet and warm. Medical assistance is necessary in case of difficulty in breathing.
of vapours/aerosols:
after skin contact: Immediately wash affected skin regions thoroughly with soap and plenty of water. Summon doctor if necessary.
after eyes contact: Thoroughly rinse eyes with lids wide apart under running water (protect the uninjured eye, remove contact lenses). Summon eye specialist if necessary.
after ingestion: Immediately rinse the mouth with water, then drink a lot of water. Consult the doctor in case of persistent trouble.

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5 Fire-Fighting Measures

Suitable extinguishing media: Water, carbon dioxide, dry extinguishing media, foam.
Unsuitable extinguishing media: Unknown
Special risks: The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes and selfcontained breathing apparatus.
Other information: Contain escaping vapours with water.
Prevent fire-fighting water from entering surface water or groundwater.

6 Accidental Release Measures

Personal precautions: Wear suitable protecting clothes. Avoid product contact and formation of vapours/aerosols. Do not inhale vapours/aerosols. In event of vapours/aerosols wear respiratory protection, safety glasses and gloves.
Specific hazards: The material itself is harmless and hardly inflammable as. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes and selfcontained breathing apparatus.
Other information: Contain escaping vapours with water.
Prevent fire-fighting water from entering surface water or groundwater.
Environmental precautions: This material is biogradable and not considered hazardous.
Ensure that the product does not reach the ground-water, water bodies or the drainage system.
Methods for cleaning up/taking up: Take up with absorption media;. Disposal of contaminated material as waste according to section 13.

7 Handling and Storage

Handling

Advice as to safe handling: Wear suitable protecting clothes. Avoid product contact and formation of vapours/aerosols. Do not inhale vapours/aerosols. In event of vapours/aerosols wear respiratory protection, safety glasses and gloves.
Remove soiled and soaked clothes and wash hands and face after work (see section 8).
Advice to prevent fire and explosion: No further requirements.

Storage

Stockrooms and containers required: Protect the product from impurity and drying up. Keep containers densely closed.
It is recommended to design stockrooms so that the product is well-protected from weather factors, solar radiation, heat up, dry up and impurities.
Keep containers densely closed and store in a cool dry place.
Ensure high standard of housekeeping in the storage area.
Do not store in metal containers (corrosion risk).
Temperature in stockrooms not below -5 °C and above +40 °C.
Storage together with other materials: Do not store together with food and luxury food, beverage and animal feed.

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8 Exposure Controls / Personal Protection

Exposure limits

The preparation contains no constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring.

Personal protective equipment

Respiratory protection: Not required. Respiratory protection necessary at vapours/aerosol and wet fog formation.

Hand protection: Rubber or plastic gloves

Eye protection: Safety goggles

Skin and body protection: Closed working clothes

Preventive and hygiene measures: Do not eat and drink at work. Remove immediately soiled and soaked clothes. Wash hands and face after work.

9 Physical and Chemical Properties

Appearance

Form/physical state: Aqueous solution

Colour: Brown

Odour: Product-specific

Data relevant to safety

Method:

pH (original state): Approx. 7

pH at 16 g/l H₂O and 20°C: Approx. 7

Change in physical state: > 100° C evaporation of water

Boiling point/-range: Not determined °C

Melting point/-range: Not determined °C

Flash point: Not applicable °C

Inflammability: Not determined

Ignition temperature: Not determined °C

Self-ignition: The product is not spontaneously inflammable.

Fire-promotive properties: The product is not fire-promotive.

Explosion hazard: The product has no explosion hazardous properties.

Vapor pressure (at °C): Not determined hPa

Density (at 20°C): approx. 1,25 g/cm³

Solubility in water (at 20°C): Fully water soluble in each ratio. mg/l

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10 Stability and Reactivity

Conditions to avoid: Direct solar radiation, heat up and dry up.
Temperatures above +40°C.

Materials to avoid: Strong alkaline materials, strong acid materials and strong oxidizer.

Hazardous decomposition products: Reacts with alkalis setting ammonia free.

Thermic decomposition products: If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.

Further information: No decomposition if correctly used.
The product is stable under normal conditions.

11 Toxicological Information

Toxicological tests

Acute toxicity Toxicological data are not available.
Toxicological effects are unknown.
Property that must be anticipated on the basis with comparable preparations:
LD50 (oral, rat): >20.000 mg/kg

Further toxicological information

After inhalation of aerosols: Slight irritations of the mucous membranes and coughing.

After skin contact: Slight irritations.

After eye contact: Slight irritations.

After swallowing: Nausea and vomiting.

After uptake of large quantities: Diarrhoea.

Further data

Further hazardous properties cannot be excluded.
The product should be handled with the care usual when dealing with chemicals.
No toxicological effects are to be expected when the product is handled and used with due care and attention.

12 Ecological Information

General information: Fertilizer material.
Ensure that the product does not reach the ground-water, water bodies or the drainage system.

Further ecologic data: Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking- water supplies.
No ecological problems are to be expected when the product is handled and used with due care and attention.

Water pollution class: WGK 1 - slightly water polluting preparation (own classification)

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13 Disposal Considerations

Product

Recommendation: Disposal of product rests in accordance with the official local disposal regulations.

According to european waste regulations:

Waste Code (EWC-No.): 061000

Waste Name: Wastes from the manufacture, formulation, supply and use of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture.

Contaminated packaging

Recommendation: Disposal of contaminated packages in accordance with the local official disposal regulations.

Cleaners: Water

14 Transport Information

Surface transport: No hazardous good.River transport: No hazardous good.Sea navigation transport: No hazardous good.Air transport: No hazardous good.Further information: The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). Possible national deviations in other countries are not considered.

15 Regulatory Information

Labelling according to EC Directives

Danger symbol and designation: No labelling duty according to the EC-Hazardous Materials Regulation.

contains R-phrases: None

contains S-phrases: None

National regulations Germany

National regulations Germany

Particular labelling of certain preparations: No labelling duty.

Employment limitations: None

Interference regulations: None

Classification according to VbF: None

Technical Regulations Air: None

Storage class according to VCI-concept: 12 Liquid product with no fire risk.

Water pollution class: WGK 1 - slightly water polluting preparation (own classification)

Further regulations, limitations and prohibition regulations: None

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16 Other information

Relevant R-Phrases (Number and full text)

For section 2:

Reason for alteration

General update.

Further information:

Data sheet writing department: Development Special Fertilisers

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.